

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

GATES, Edward, R.
Wolf, Greenfield & Sacks, P.C.
600 Atlantic Avenue
Boston, MA 02210
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 19 March 1997 (19.03.97)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference A0558/7008WO	
International application No. PCT/US96/14937	International filing date (day/month/year) 18 September 1996 (18.09.96)

1. The following indications appeared on record concerning:

☒ the applicant

 ☐ the inventor

 ☐ the agent

 ☐ the common representative

Name and Address

INTRACEL CORPORATION
359 Allston Street
Cambridge, MA 02139
United States of America

State of Nationality

State of Residence

Telephone No.

Facsimile No.

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person

 ☐ the name

 ☒ the address

 ☐ the nationality

 ☐ the residence

Name and Address

INTRACEL CORPORATION
2005 N.W. Sammamish Road
Issaquah, WA 98027
United States of America

State of Nationality

State of Residence

Telephone No.

Facsimile No.

Teleprinter No.

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input checked="" type="checkbox"/> the designated Offices concerned
<input type="checkbox"/> the International Searching Authority	<input type="checkbox"/> the elected Offices concerned
<input type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Martine Lee Telephone No.: (41-22) 730.91.11
--	--

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

GATES, Edward, R.
Wolf, Greenfield & Sacks, P.C.
600 Atlantic Avenue
Boston, MA 02210
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 20 March 1997 (20.03.97)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference A0558/7008WO	
International application No. PCT/US96/14937	International filing date (day/month/year) 18 September 1996 (18.09.96)

1. The following indications appeared on record concerning:

☒ the applicant ☒ the inventor ☐ the agent ☐ the common representative

Name and Address PILKINGTON, Glenn, R. 58 Winthrop Street West Newton, MA 02165 United States of America	State of Nationality	State of Residence
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person ☐ the name ☒ the address ☐ the nationality ☐ the residence

Name and Address PILKINGTON, Glenn, R. Suite 107 2005 N.W. Sammamish Road Issaquah, WA 98027 United States of America	State of Nationality AU	State of Residence US
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input checked="" type="checkbox"/> the designated Offices concerned
<input type="checkbox"/> the International Searching Authority	<input type="checkbox"/> the elected Offices concerned
<input type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Martine Lee Telephone No.: (41-22) 730.91.11
--	--

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

GATES, Edward, R.
Wolf, Greenfield & Sacks, P.C.
600 Atlantic Avenue
Boston, MA 02210
ETATS-UNIS D'AMERIQUEDate of mailing (day/month/year)
19 March 1997 (19.03.97)Applicant's or agent's file reference
A0558/7008WOInternational application No.
PCT/US96/14937

IMPORTANT NOTIFICATION

International filing date (day/month/year)
18 September 1996 (18.09.96)

1. The following indications appeared on record concerning:

☒ the applicant ☒ the inventor ☐ the agent ☐ the common representative

Name and Address

GILMOUR, Page, S.
CHANOCK, Robert, M.
CROWE, James, E., Jr.
MURPHY, Brian, R.

State of Nationality

State of Residence

Telephone No.

Facsimile No.

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person ☐ the name ☐ the address ☒ the nationality ☒ the residence

Name and Address

State of Nationality

US

State of Residence

US

Telephone No.

Facsimile No.

Teleprinter No.

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

☒ the receiving Office ☒ the designated Offices concerned
☐ the International Searching Authority ☐ the elected Offices concerned
☐ the International Preliminary Examining Authority ☐ other:The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

Martine Lee

Telephone No.: (41-22) 730.91.11

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

GATES, Edward, R.
Wolf, Greenfield & Sacks, P.C.
600 Atlantic Avenue
Boston, MA 02210
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 15 July 1997 (15.07.97)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference A0558/7008WO	
International application No. PCT/US96/14937	International filing date (day/month/year) 18 September 1996 (18.09.96)

1. The following indications appeared on record concerning:

☒ the applicant ☒ the inventor ☐ the agent ☐ the common representative

Name and Address

GILMOUR, Page, S.
46-1B Garden Circle
Waltham, MA 02154
ETATS-UNIS D'AMERIQUE

State of Nationality

US

State of Residence

US

Telephone No.

Facsimile No.

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person ☐ the name ☒ the address ☐ the nationality ☐ the residence

Name and Address

GILMOUR, Page, S.
Suite 107
2005 N. W. Sammamish Road
Issaquah, WA 98027
ETATS-UNIS D'AMERIQUE

State of Nationality

US

State of Residence

US

Telephone No.

Facsimile No.

Teleprinter No.

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned
<input checked="" type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

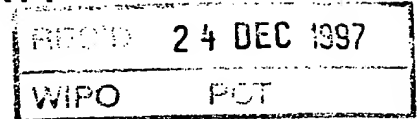
Authorized officer

Martine Lee

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference AO558/7008WO	FOR FURTHER ACTION		See Notification of Transmittal of International Preliminary Examination Report (PCT/IPEA/416)
International application No. PCT/US96/14937	International filing date (day/month/year) 18/09/1996	Priority date (day/month/year) 18/09/1995	
International Patent Classification (IPC) or national classification and IPC A61K39/42			
Applicant INTRACEL CORPORATION et al.			

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 4 sheets, including this cover sheet.

- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand 17/04/1997	Date of completion of this report 22.12.97
Name and mailing address of the IPEA/  European Patent Office D-80298 Munich Tel. (+49-89) 2399-0, Tx: 523656 epmu d Fax: (+49-89) 2399-4465	Authorized officer Hinchliffe, P Telephone No. (+49-89) 2399-8431 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US96/14937

I. Basis of the report

1. This report has been drawn on the basis of (*substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.*):

Description, pages:

1-63 as originally filed

Claims, No.:

1-17 as originally filed

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
☐ the claims, Nos.:
☐ the drawings, sheets:

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1-17
	No:	Claims	
Inventive step (IS)	Yes:	Claims	1-17
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1-13
	No:	Claims	14-17

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/US96/14937

2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/US96/14937

SECTION V

1. The subject matter of the claims concerns pharmaceutical compositions and uses of these compositions comprising antibodies raised to RSV F glycoprotein epitope. The compositions fulfil the requirements of Article 33(2) and 33(3) PCT because the antibodies are defined by specific sequences not shown or derivable from the prior art documents cited in the I.S.R.
2. For the assessment of the present claims 14-17 on the question whether they are industrially applicable, no unified criteria exist in the PCT. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment. 1.

SECTION VII

1. The imprecise statement in the description on page 32 implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Article 6 PCT) when used to interpret them (see also the PCT Guide- lines, PCT/GL/3 III, 4.3a).

SECTION VIII

1. The introduction of the present application is inaccurate insofar as HIV infection is not restricted to the homosexual population (see line 21). Consequently the reference should be removed in order to satisfy the requirements of Rule 5(ii) PCT.



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : A61K 39/42, 48/00, 51/00, C07K 16/10, G01N 33/569, 33/577		A1	(11) International Publication Number: WO 97/10846
			(43) International Publication Date: 27 March 1997 (27.03.97)
(21) International Application Number: PCT/US96/14937		(74) Agent: GATES, Edward, R.; Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02210 (US).	
(22) International Filing Date: 18 September 1996 (18.09.96)		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).	
(30) Priority Data: 60/003,931 18 September 1995 (18.09.95) US		Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
(71) Applicants (for all designated States except US): INTRACEL CORPORATION [US/US]; 359 Allston Street, Cambridge, MA 02139 (US). THE GOVERNMENT OF THE UNITED STATES, represented by THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES [US/US]; National Institutes of Health, Office of Technology Transfer, 6011 Executive Boulevard, Rockville, MD 20852 (US).			
(72) Inventors; and (75) Inventors/Applicants (for US only): PILKINGTON, Glenn, R. [-/US]; 58 Winthrop Street, West Newton, MA 02165 (US). GILMOUR, Page, S. [-/US]; 46-1B Garden Circle, Waltham, MA 02154 (US). CHANOCK, Robert, M. [-/US]; 7001 Longwood Drive, Bethesda, MD 20817 (US). CROWE, James, E., Jr. [-/US]; 1535 Aberdeen Drive, Brentwood, TN 37027 (US). MURPHY, Brian, R. [-/US]; 5410 Tuscarawas Road, Bethesda, MD 20816 (US).			
(54) Title: NEUTRALIZING MONOCLONAL ANTIBODIES TO RESPIRATORY SYNCYTIAL VIRUS			
(57) Abstract <p>The present invention relates to the identification and cloning of a novel neutralizing human monoclonal antibody to the Respiratory Syncytial Virus. The invention provides such antibodies, fragments of such antibodies retaining RSV-binding ability, chimeric antibodies retaining RSV-binding ability, and pharmaceutical compositions including such antibodies. The invention further provides for isolated nucleic acids encoding the antibodies of the invention and host cells transformed therewith. Finally, the invention provides for diagnostic and therapeutic methods employing the antibodies and nucleic acids of the invention.</p>			

INTERNATIONAL SEARCH REPORT

International application No
PCT/US 96/14937

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 A61K39/42 A61K48/00 A61K51/00 C07K16/10 G01N33/569
G01N33/577

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A61K C07K G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94 06448 A (SCRIPPS RESEARCH INST ;US GOV AS REPRESENTED BY THE (US); BURTON D) 31 March 1994 cited in the application see the whole document ---	1-12,14, 15
X	WO 93 20210 A (SCOTGEN LTD ;TAYLOR GERALDINE (GB); STOTT EDWARD JAMES (GB)) 14 October 1993 see the whole document ---	1-12,14, 15
X	WO 94 17105 A (MEDIMMUNE INC) 4 August 1994 see the whole document ---	1-12,14, 15
X	WO 95 04081 A (ORAVAX INC) 9 February 1995 see the whole document ---	1-12,14, 15
-/--		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

28 January 1997

Date of mailing of the international search report

12.02.97

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+ 31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+ 31-70) 340-3016

Authorized officer

Müller, F

INTERNATIONAL SEARCH REPORT

Internatic Application No

PCT/US 96/14937

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 800 078 A (PRINCE GREGORY ET AL) 24 January 1989 see the whole document ---	1-12,14, 15
X	WO 92 04381 A (SCOTGEN LTD) 19 March 1992 cited in the application see the whole document ---	1-12,14, 15
Y	PROC. NATL. ACAD. SCI. USA, vol. 89, - November 1992 pages 10164-10168, XP002019160 BARBAS C. F. ET AL.,: "Human monoclonal Fab fragments derived from a combinatorial library bind to respiratory syncytial virus F glycoprotein and neutralize infectivity" cited in the application see the whole document ---	13,16,17
Y	WO 95 03832 A (UNIV JEFFERSON ;DUAN LINGXUN (US); POMERANTZ ROGER (US)) 9 February 1995 see page 3 ff, claims ---	13,16,17
A	BIO/TECHNOLOGY, vol. 9, - March 1991 pages 266-271, XP002019135 TEMPEST P.R. ET AL., : "Reshaping a human monoclonal antibody to inhibit human respiratory syncytial virus infection in vivo" cited in the application see the whole document -----	1-17

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 96/ 14937

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Remark: Although claim(s) 14-17
is(are) directed to a method of treatment of the human/animal
body, the search has been carried out and based on the alleged
effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such
an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all
searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment
of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report
covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 96/14937

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO-A-9406448	31-03-94	AU-A- 4927193 CA-A- 2144043 EP-A- 0671927 FI-A- 951164 JP-T- 8505520 NO-A- 950881	12-04-94 31-03-94 20-09-95 12-05-95 18-06-96 15-05-95
WO-A-9320210	14-10-93	AU-A- 3900093 CA-A- 2133662 EP-A- 0636182 JP-T- 7508401 ZA-A- 9302445	08-11-93 14-10-93 01-02-95 21-09-95 05-01-95
WO-A-9417105	04-08-94	AU-A- 3660893	15-08-94
WO-A-9504081	09-02-95	AU-A- 7450094 CA-A- 2167835 CN-A- 1132516 EP-A- 0724602 US-A- 5534411	28-02-95 09-02-95 02-10-96 07-08-96 09-07-96
US-A-4800078	24-01-89	NONE	
WO-A-9204381	19-03-92	AU-B- 654827 AU-A- 8505891 CA-A- 2091335 EP-A- 0548190 JP-T- 6501152 NZ-A- 239728 NZ-A- 250415	24-11-94 30-03-92 12-03-92 30-06-93 10-02-94 26-07-95 27-06-95
WO-A-9503832	09-02-95	AU-A- 7551394 CA-A- 2168349 EP-A- 0721350	28-02-95 09-02-95 17-07-96

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference A0558/7008W0	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 96/ 14937	International filing date(day/month/year) 18/09/1996	(Earliest) Priority Date (day/month/year) 18/09/1995
Applicant INTRACEL CORPORATION et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☒ Certain claims were found unsearchable (see Box I).
2. ☐ Unity of invention is lacking (see Box II).
3. ☒ The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing
 - ☐ filed with the international application.
 - ☒ furnished by the applicant separately from the international application,
 - ☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
 - ☐ Transcribed by this Authority
4. With regard to the title, ☒ the text is approved as submitted by the applicant.
 - ☐ the text has been established by this Authority to read as follows:
5. With regard to the abstract,
 - ☒ the text is approved as submitted by the applicant.
 - ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International Search Report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is:
 - Figure No. ☐ as suggested by the applicant.
 - ☐ because the applicant failed to suggest a figure.
 - ☐ because this figure better characterizes the invention.
 - ☒ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 96/ 14937

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Remark: Although claim(s) 14-17
is(are) directed to a method of treatment of the human/animal
body, the search has been carried out and based on the alleged
effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such
an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all
searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment
of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report
covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 96/14937

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 A61K39/42 A61K48/00 A61K51/00 C07K16/10 G01N33/569
G01N33/577

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A61K C07K G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94 06448 A (SCRIPPS RESEARCH INST ;US GOV AS REPRESENTED BY THE (US); BURTON D) 31 March 1994 cited in the application see the whole document ---	1-12,14, 15
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Date of the actual completion of the international search

28 January 1997

Date of mailing of the international search report

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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Information on patent family members

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